

Spring River Water Summit: Discover Your Piece of the Watershed Puzzle

Tour: May 29, 2013
Conference: May 30-31, 2013



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES



Our Missouri Waters Initiative

- ***OWM's watershed-based approach recognizes the inter-relationship of water quality with other water resource activities (e.g., monitoring, assessment, planning, permitting, modeling, quantity/supply, conservation).***
- ***OWM intended to holistically address water related issues and to better coordinate water resource management with all local, state and federal entities and stakeholders.***
- ***Spring River watershed is one of three pilot watersheds chosen in Missouri for the OWM initiative to determine how best to apply the watershed-based approach statewide.***

Socio-Economic Considerations

***A holistic approach to water resources
in the Spring River Watershed***

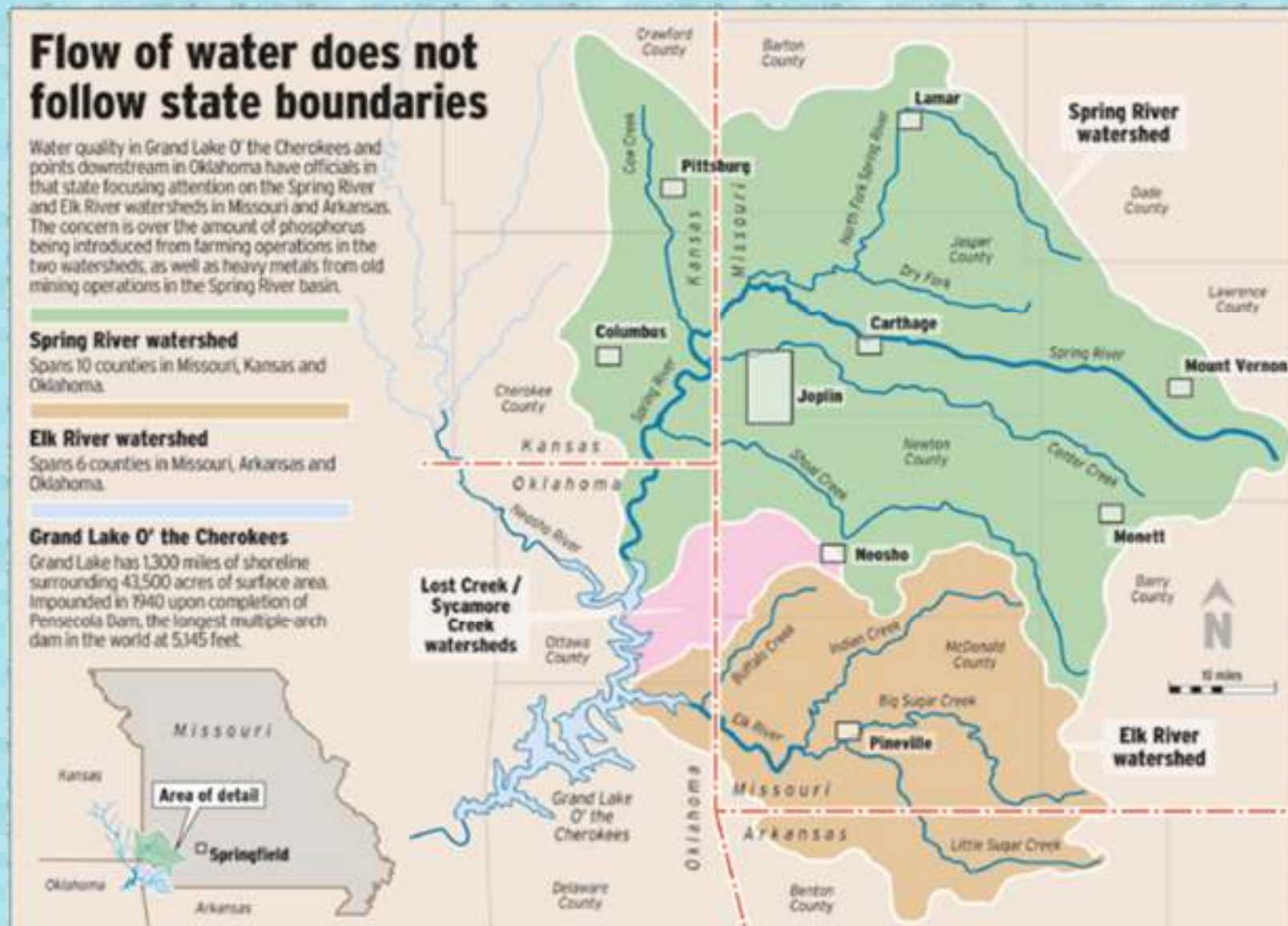
May challenge our perspectives & priorities

Drinking Water & Wastewater Infrastructure

Stream Water Quality & Watershed Planning

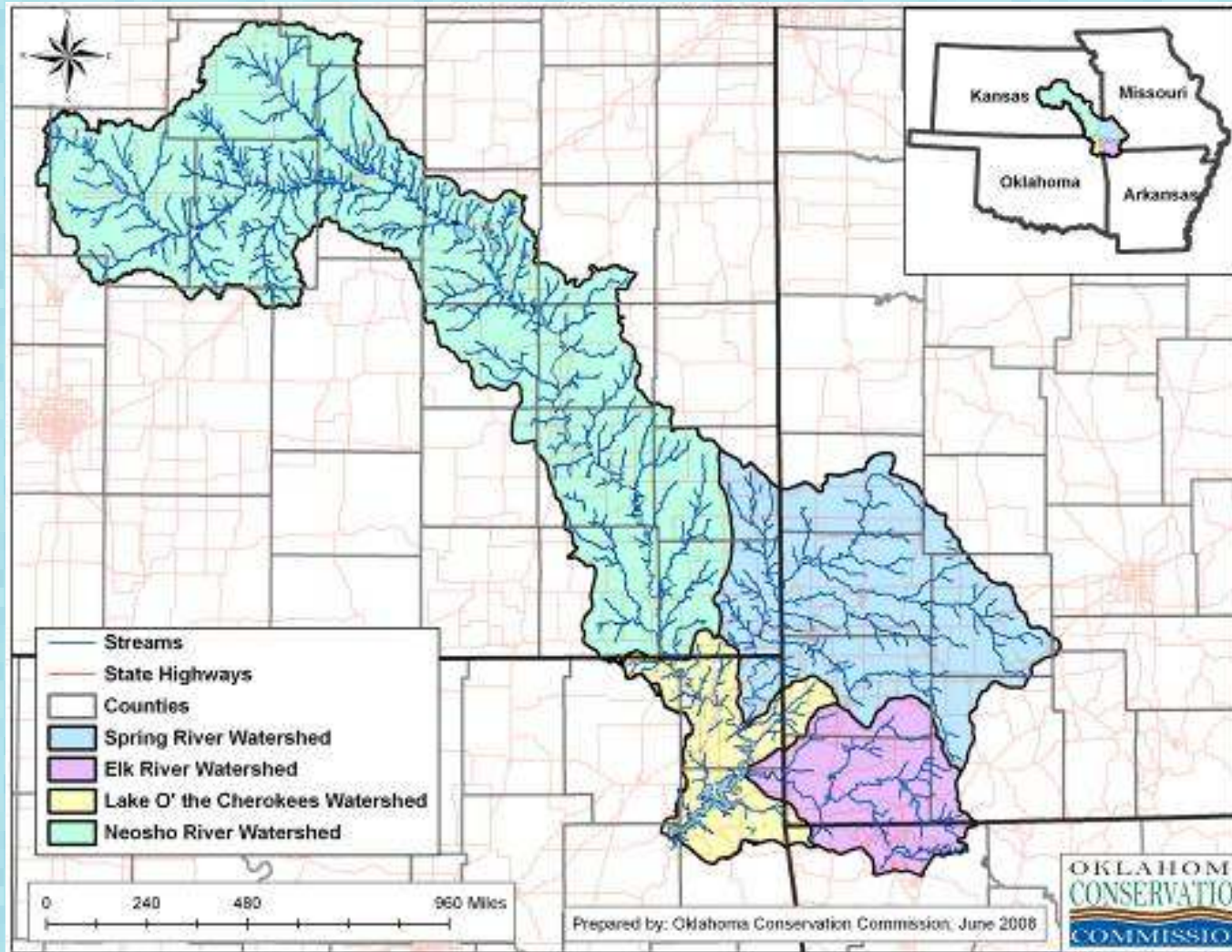
Long-term Water Supply & Drought Preparedness

Extreme Southwest Mo. Watersheds

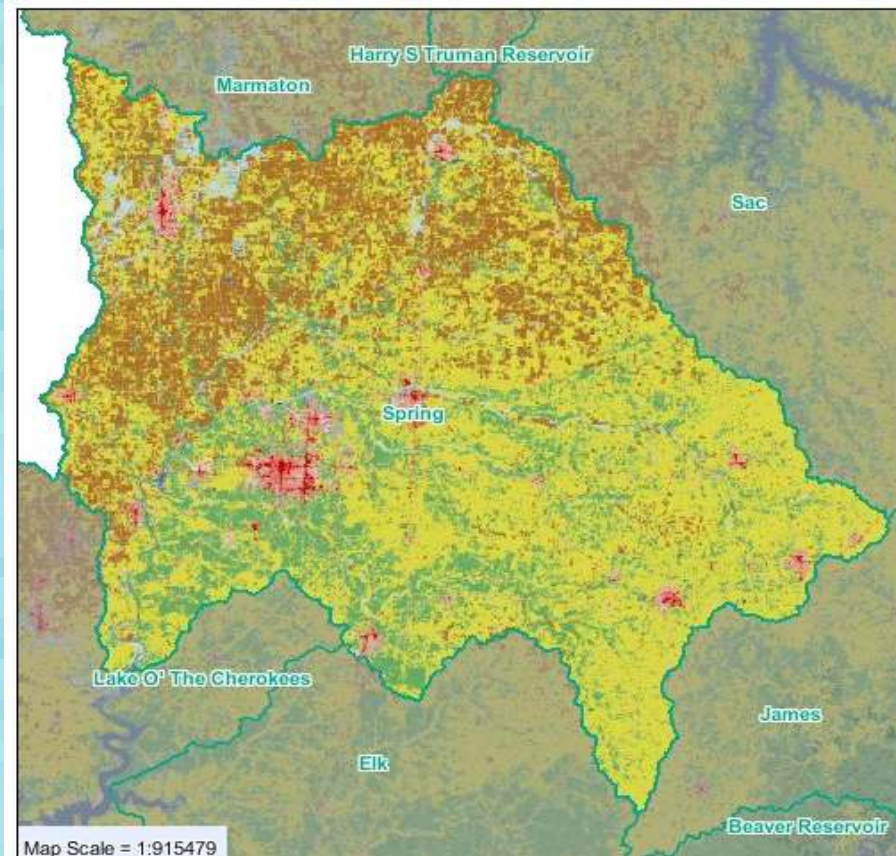


June 6, 2013

Grand Lake O' the Cherokees Watershed



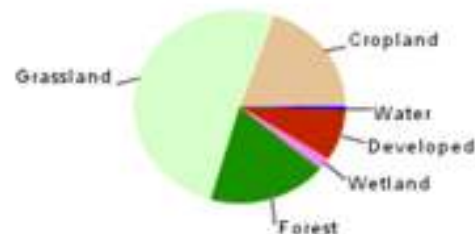
Land Use/Land Cover



Land Use/Land Cover

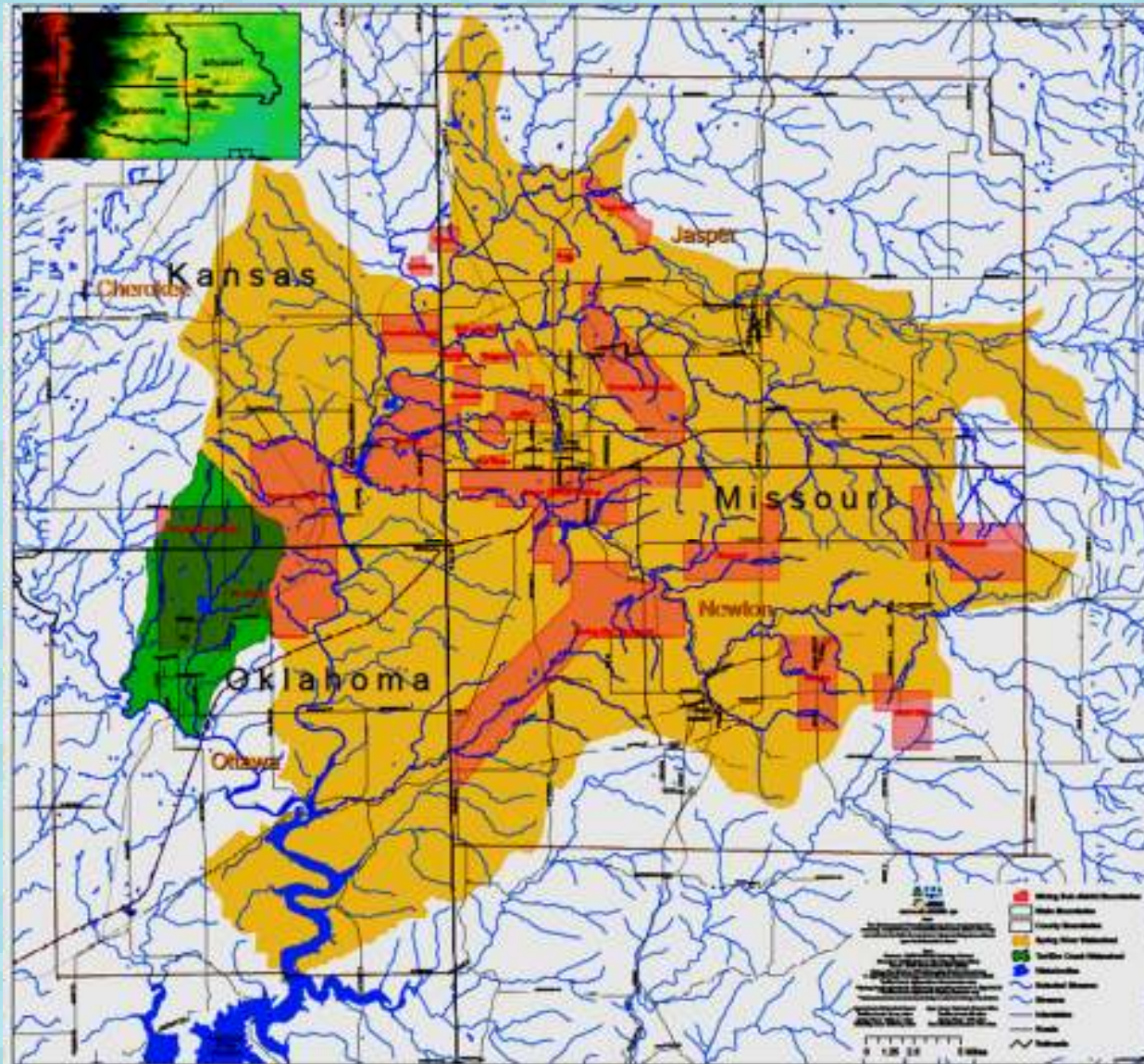
- Developed, High Intensity
- Developed, Medium Intensity
- Developed, Low Intensity
- Developed, Open Space
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Herbaceous Wetlands
- Open Water

	Cropland	Grassland	Forest	Wetland	Developed	Water
Acres	326,592	840,507	305,255	32,549	143,443	9,206
Percent	19.70%	50.71%	18.42%	1.96%	8.65%	0.56%

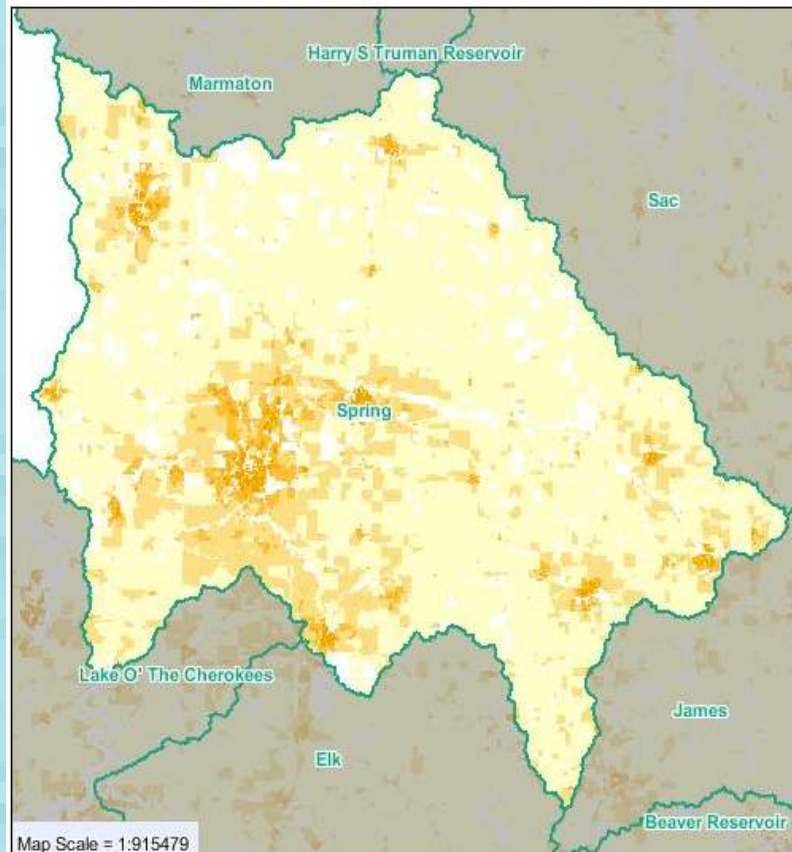


Source: U.S. Geological Survey National Land Cover Database, 2006.

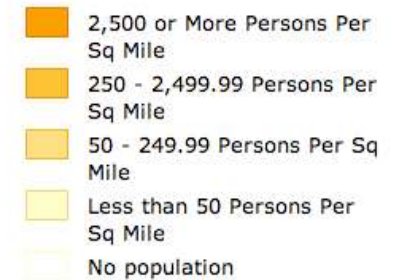
Tri-State Mining District



Human Population

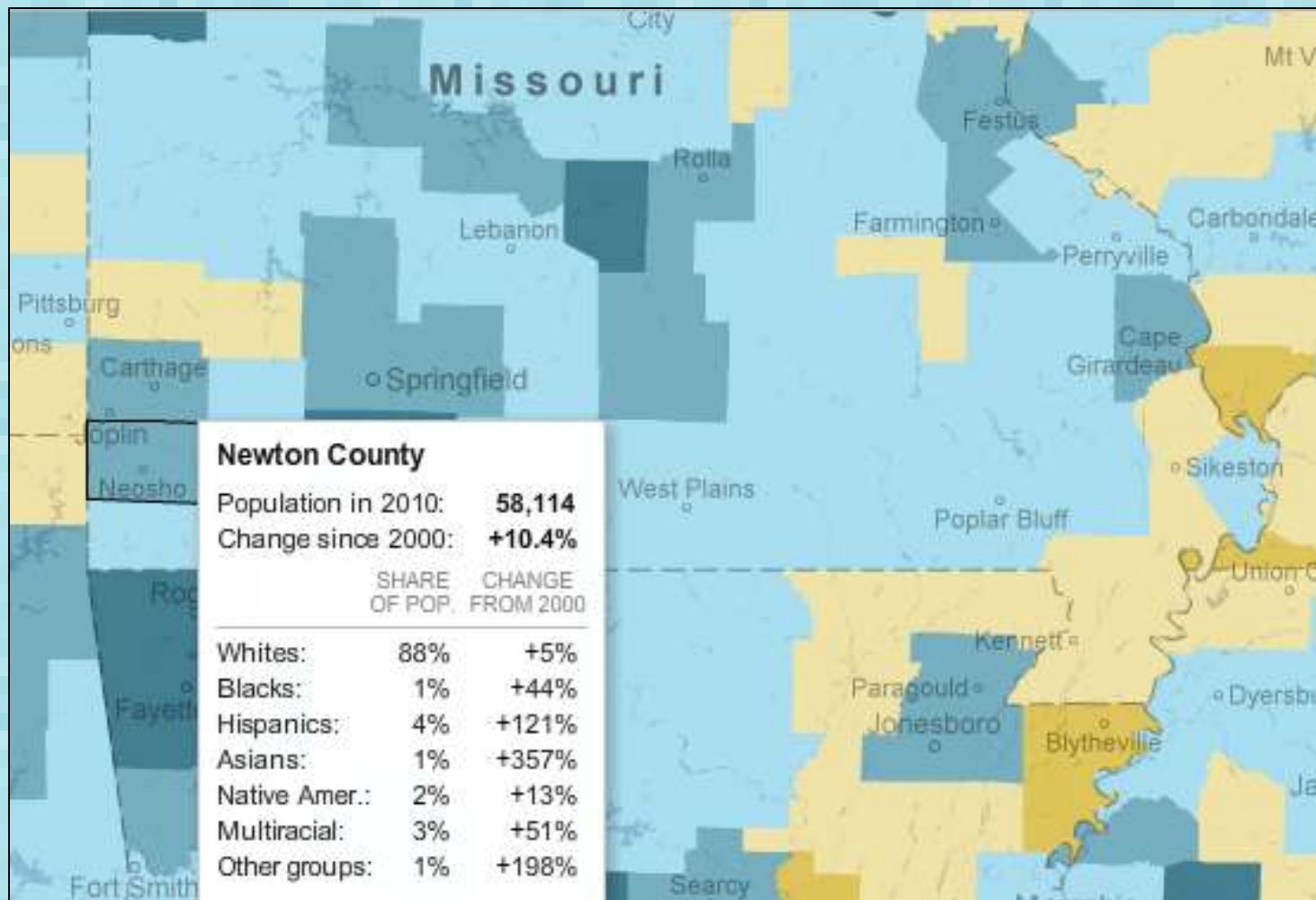


Census Data



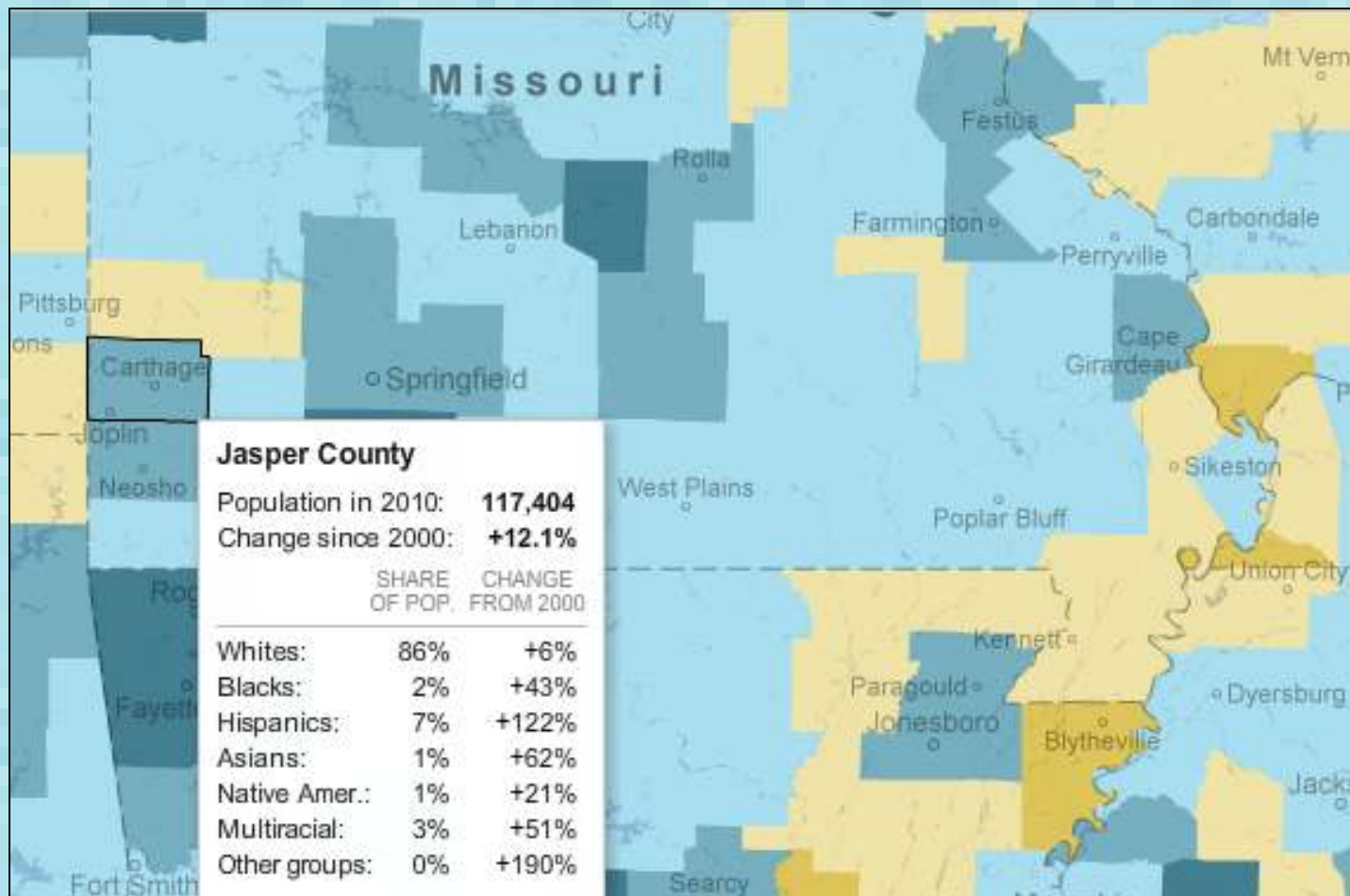
Total Population (2010):	270,036	
Persons/Sq Mile:	104.31	
Total Population (2000):	249,228	
Population Change, 2000 - 2010:	20808	
Age 0-4:	19,315	7.15%
Age 5-17:	49,052	18.16%
Age 18-64:	162,477	60.17%
Age 65 and up:	39,192	14.51%

Newton County population



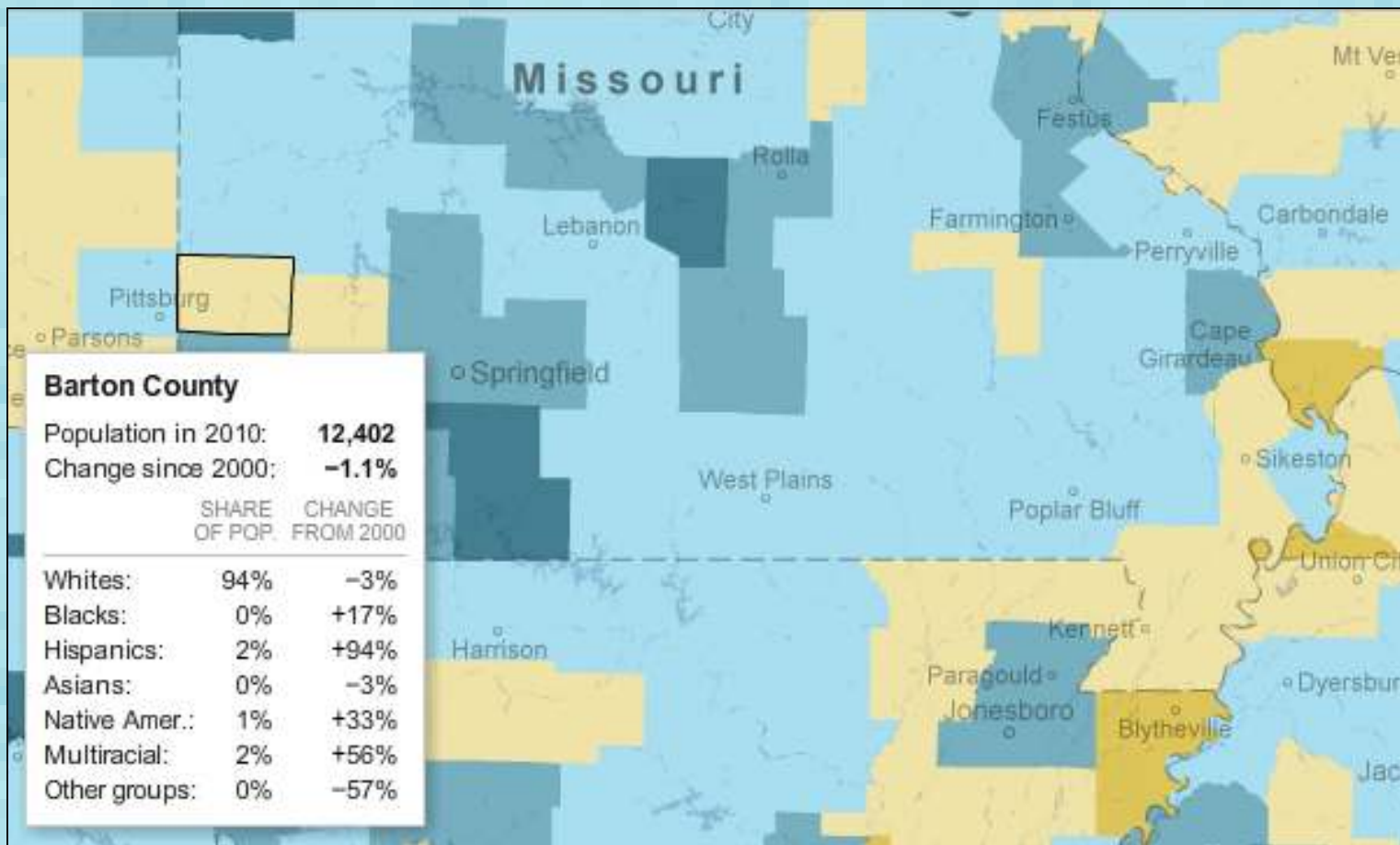
<http://projects.nytimes.com/census/2010/map>

Jasper County population



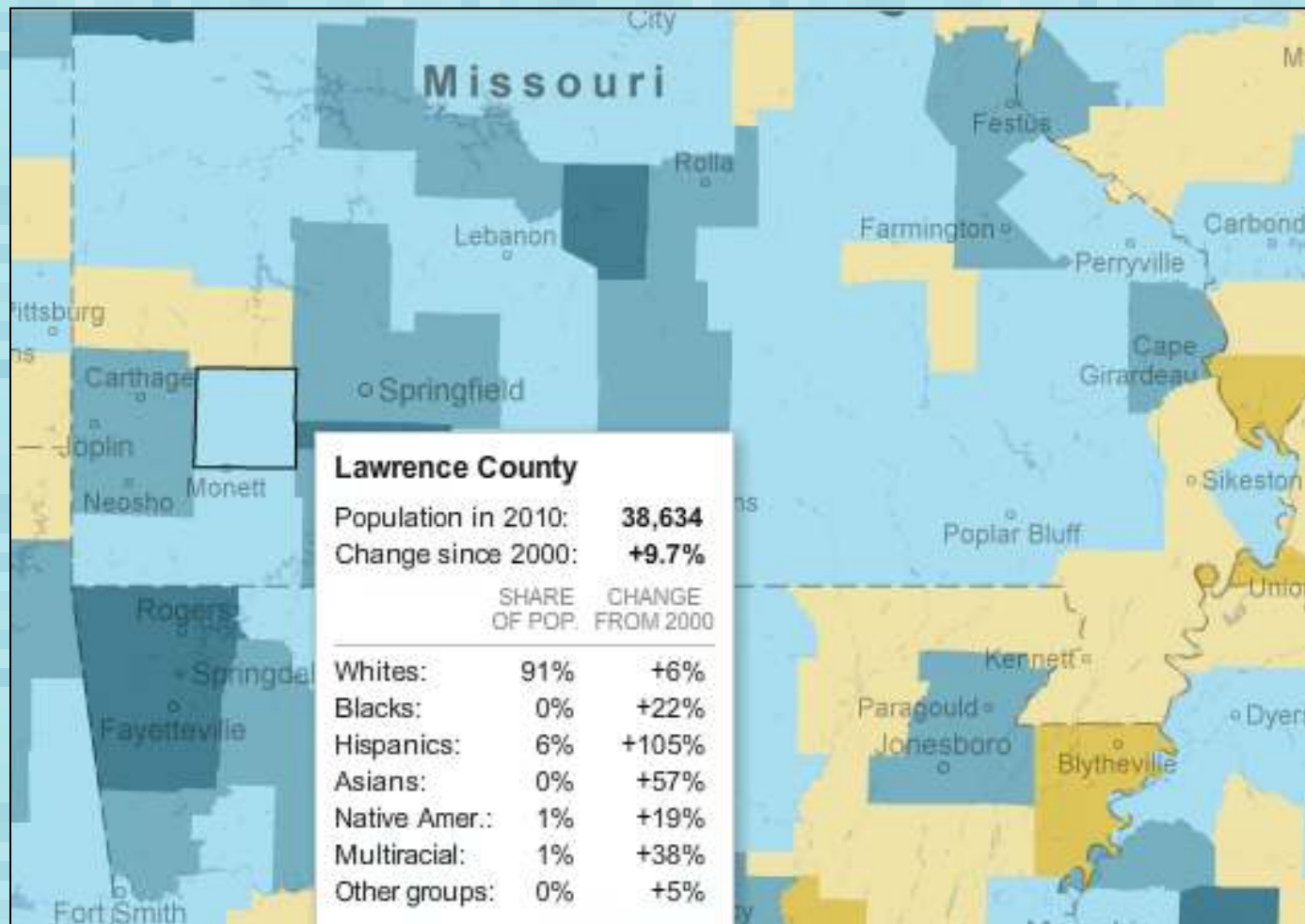
<http://projects.nytimes.com/census/2010/map>

Barton County population



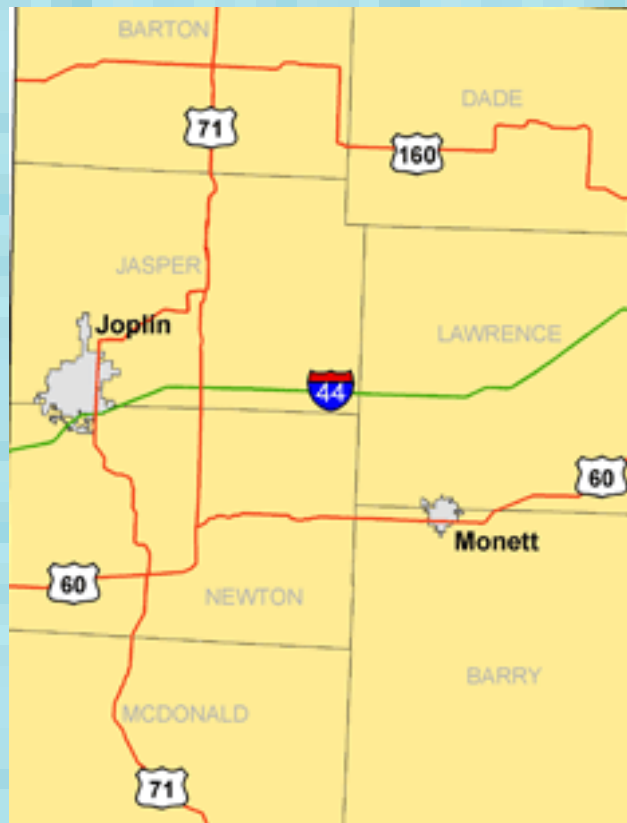
<http://projects.nytimes.com/census/2010/map>

Lawrence County population



<http://projects.nytimes.com/census/2010/map>

Southwest Regional Economics



<http://www.missourieconomy.org/regional/profile/?ac=2915000008>

Population, Income and Unemployment

Area	Population 2012	Income 2011		Taxable Sales Total Revenue 2012
		Total Personal Income	Per Capita Income	
Barry County	35,546	\$1,068,268,000	\$30,278	\$351,206,957
Barton County	12,337	\$355,298,000	\$28,823	\$92,543,900
Dade County	7,568	\$205,052,000	\$26,265	\$38,838,488
Jasper County	115,258	\$3,518,579,000	\$29,709	\$1,654,390,520
Lawrence County	38,467	\$1,039,801,000	\$26,896	\$242,256,510
Mcdonald County	22,876	\$570,944,000	\$24,849	\$283,560,071
Newton County	59,069	\$2,035,961,000	\$34,854	\$637,005,287
Southwest Region Summary	291,121	\$8,793,903,000	\$29,921	\$3,299,801,733

Local Area Unemployment Statistics April 2013				
Area	Civilian Labor Force	Employment	Unemployment	Unemployment Rate
Barry County	16,550	15,588	962	5.8%
Barton County	4,999	4,636	363	7.3%
Dade County	3,535	3,305	230	6.5%
Jasper County	57,677	54,606	3,071	5.3%
Lawrence County	19,125	18,040	1,085	5.7%
Mcdonald County	11,280	10,605	675	6%
Newton County	28,827	27,211	1,616	5.6%
Southwest Region Summary	141,993	133,991	8,002	5.6%

<http://www.missourieconomy.org/regional/profile/default.aspx?ac=2915000008>

Occupational Employment Projections

Occupation	2010 Estimated Employment	2020 Projected Employment	Openings Due to Growth	Openings Due to Replacement	Total Openings
Heavy and Tractor-Trailer Truck Drivers	6,158	7,030	872	1,225	2,097
Cashiers	3,452	3,560	108	1,566	1,674
Retail Salespersons	3,673	4,012	339	1,079	1,418
Combined Food Preparation and Serving Workers	3,681	4,069	388	1,027	1,415
Waiters and Waitresses	1,962	2,043	81	980	1,061
Registered Nurses	2,679	2,909	230	485	715
Laborers and Freight, Stock, and Material Movers, Hand	1,889	1,985	96	604	700
Customer Service Representatives	1,579	1,763	184	448	632
Office Clerks, General	2,554	2,730	176	452	628
Childcare Workers	1,603	1,706	103	505	608
Meat, Poultry, and Fish Cutters and Trimmers	1,195	1,392	197	347	544
Personal Care Aides	1,413	1,836	423	112	535
Team Assemblers	2,631	2,582	0	521	521
First-Line Supervisors of Retail Sales Workers	1,801	1,870	69	420	489
Janitors and Cleaners, Except Maids and Housekeeping	2,018	2,080	62	380	442
Elementary School Teachers, Except Special Education	1,407	1,507	100	309	409
Packers and Packagers, Hand	1,003	1,066	63	287	350
First-Line Supervisors of Office and Administrative Support	962	1,032	70	257	327
Industrial Truck and Tractor Operators	1,146	1,145	0	325	325
Food Batchmakers	1,080	1,089	9	301	310

http://www.missourieconomy.org/pdfs/most_openings_sw_wia_2010-2020_rev_1-29-13.pdf

Major Employers

Able Manufacturing (HQ Joplin)

Aegis Communications (Joplin)

Butterball Turkey (Carthage)

Cardinal Scale (HQ Webb City)

Con-way (HQ Joplin)

Ducommun Inc. (Joplin)

EaglePicher Technologies (HQ Joplin)

*Empire District Electric Co. (HQ
Joplin)*

General Mills Bakeries (Joplin)

Leggett & Platt, Inc. (HQ Carthage)

Jack Henry & Associates (HQ Monett)

Jasper Products (HQ Joplin)

Lozier Corp (Joplin)

Moark Productions (Neosho)

Nutra-Blend LLC (HQ Neosho)

Premiere Turbines (HQ Neosho)

RockTenn (Joplin)

Schaeffler Group USA (Joplin)

Schreiber Foods (Carthage)

Sunbeam Products (Neosho)

TAMKO Roofing Products (Joplin)

Thorco Industries (Lamar)

What water uses do we rely on

RELY ON...GREAT DEAL OR FREQUENTLY	DRINKING WATER	%	RECREATION	%	BUSINESS & INDUSTRY	%	IRRIGATION	%	RESIDENTIAL USE	%	TOTALS	%
Agricultural	2	3.2%	4	6.3%	2	3.2%	4	6.3%	2	3.2%	14	22.2%
Business or industry	3	4.8%	0	0.0%	3	4.8%	1	1.6%	2	3.2%	9	14.3%
Municipal/county government, community leader	6	9.5%	5	7.9%	4	6.3%	1	1.6%	4	6.3%	20	31.7%
Other professional organization or association	1	1.6%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.6%
State, federal or tribal entity	6	9.5%	4	6.3%	3	4.8%	2	3.2%	3	4.8%	18	28.6%
Watershed or other environmental group	2	3.2%	3	4.8%	2	3.2%	1	1.6%	2	3.2%	10	15.9%
Other/other	1	1.6%	1	1.6%	0	0.0%	0	0.0%	0	0.0%	2	3.2%
Individual Landowner												
Village Board of Trustees												
	21	33.3%	17	27.0%	14	22.2%	9	14.3%	13	20.6%		

Joplin's Recovery Continues Two Years Later

KSMU.org | May 21, 2013 - 11:37am | By Michele Skalicky

Joplin plans an observance of the two-year anniversary of the tornado tomorrow (5/22) at 4:40 in Cunningham Park. The theme is *Resilience, Resolve and Realization*—three characteristics Joplin citizens have demonstrated. Colbert-Kean says there will be various tents set up at tomorrow's observance...

"And they're all going to focus on our growth, what we have in store for growing Joplin, you know, increasing our population, increasing our economic development, and the educational component will be there also," she said.

April 19, 2010 Congressional Water Summit

Also from the *Joplin Globe*:

...“makes no sense” to build a reservoir upstream of Grand Lake in Oklahoma since that lake is already capturing the water that is flowing out of Southwest Missouri.

Nichols concurred that it would be best to acquire already captured water in Grand Lake, but said that “is unlikely to happen. It makes no sense to build a reservoir to catch water that is already being caught downstream. But what else can you do when that water is not available to you?”

Oklahoma officials have said water from Grand Lake is not available for use outside of the state.

New water sources being investigated

- Table Rock Lake
- Stockton Lake
- Grand Lake of the Cherokee's
- Beaver Water District
- New reservoir(s) to serve the western area
- New reservoir(s) to serve the eastern area
- New reservoir(s) to serve the Pittsburg/Lamar area
- Pick up water below Stockton Lake
- Lake Taneycomo
- Additional well(s) in remote areas as interim supply
- Other?